

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/521,206
Source: PG/10
Date Processed by STIC: 1/25/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/521,206

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 01/25/2005

PATENT APPLICATION: US/10/521,206

TIME: 09:48:39

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\01252005\J521206.raw

3 <110> APPLICANT: The Trustees of Columbia University in the City of New York et al.
 5 <120> TITLE OF INVENTION: Multiplex Genotyping Using Solid Phase Capturable
 Dideoxynucleotides And
 6 Mass Spectrometry
 9 <130> FILE REFERENCE: 0575/66833-A-PCT-US
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/521,206
 C--> 12 <141> CURRENT FILING DATE: 2005-01-12
 14 <160> NUMBER OF SEQ ID NOS: 14
 16 <170> SOFTWARE: PatentIn version 3.2
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 19
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Artificial Sequence
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: primer
 26 <400> SEQUENCE: 1
 27 ctacccccag aacatcacc 19
 30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 22
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Artificial Sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: primer
 38 <400> SEQUENCE: 2
 39 gcactacctc ttcatgggtg cc 22
 42 <210> SEQ ID NO: 3
 43 <211> LENGTH: 18
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Artificial Sequence
 47 <220> FEATURE:
 48 <223> OTHER INFORMATION: primer
 50 <400> SEQUENCE: 3
 51 catcagtcac atacccca 18
 54 <210> SEQ ID NO: 4
 55 <211> LENGTH: 22
 56 <212> TYPE: DNA
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: primer
 62 <400> SEQUENCE: 4
 63 cagtgaacat gtgatccac cc 22
 66 <210> SEQ ID NO: 5
 67 <211> LENGTH: 13
 68 <212> TYPE: DNA

pp 2-4
Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

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Input Set : A:\PTO.FG.txt

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69 <213> ORGANISM: Artificial Sequence

71 <220> FEATURE:

72 <223> OTHER INFORMATION: internal mass standard

74 <400> SEQUENCE: 5

75 tttttctttt tct

78 <210> SEQ ID NO: 6

79 <211> LENGTH: 22

80 <212> TYPE: DNA

81 <213> ORGANISM: Artificial Sequence

83 <220> FEATURE:

84 <223> OTHER INFORMATION: primer

86 <400> SEQUENCE: 6

87 ggggaagagc agatatatac gt

90 <210> SEQ ID NO: 7

91 <211> LENGTH: 24

92 <212> TYPE: DNA

93 <213> ORGANISM: Artificial Sequence

95 <220> FEATURE:

96 <223> OTHER INFORMATION: primer

98 <400> SEQUENCE: 7

99 ggggctccac acggcgactc tcat

102 <210> SEQ ID NO: 8

103 <211> LENGTH: 18

104 <212> TYPE: DNA

105 <213> ORGANISM: Artificial Sequence

107 <220> FEATURE:

108 <223> OTHER INFORMATION: primer

110 <400> SEQUENCE: 8

111 agaggatcca accgagac

114 <210> SEQ ID NO: 9

115 <211> LENGTH: 23

116 <212> TYPE: DNA

117 <213> ORGANISM: Artificial Sequence

119 <220> FEATURE:

120 <223> OTHER INFORMATION: primer

122 <400> SEQUENCE: 9

123 tgggtgtagg tgatgttgat gta

126 <210> SEQ ID NO: 10

127 <211> LENGTH: 22

128 <212> TYPE: DNA

129 <213> ORGANISM: Artificial Sequence

131 <220> FEATURE:

132 <223> OTHER INFORMATION: primer

134 <400> SEQUENCE: 10

135 cacattgtca aggacgtacc cg

138 <210> SEQ ID NO: 11

139 <211> LENGTH: 20

140 <212> TYPE: DNA

141 <213> ORGANISM: Artificial Sequence

give source of genetic material
(see item 11
on Enos
summary
sheet)

13

22

24

18

23

22

RAW SEQUENCE LISTING

DATE: 01/25/2005

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TIME: 09:48:39

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\01252005\J521206.raw

143 <220> FEATURE:
 144 <223> OTHER INFORMATION: primer
 146 <400> SEQUENCE: 11
 147 taccgcgcgt acttgccctc 20
 150 <210> SEQ ID NO: 12
 151 <211> LENGTH: 21
 152 <212> TYPE: DNA
 153 <213> ORGANISM: Artificial Sequence
 155 <220> FEATURE:
 156 <223> OTHER INFORMATION: primer
 158 <400> SEQUENCE: 12
 159 tccacgcaca aacacggaca g 21
 162 <210> SEQ ID NO: 13
 163 <211> LENGTH: 100
 164 <212> TYPE: DNA
 165 <213> ORGANISM: Artificial Sequence
 167 <220> FEATURE:
 168 <223> OTHER INFORMATION: template *give source*
 170 <400> SEQUENCE: 13
 171 taccckgagg ccaagtacgg cgggtacgtc cttgacaatg tgtacatcaa catcacctac 60
 173 caccatgtca gtctcggttg gatcctctat tgtgtccggg 100
 176 <210> SEQ ID NO: 14
 177 <211> LENGTH: 110
 178 <212> TYPE: DNA
 179 <213> ORGANISM: Artificial Sequence
 181 <220> FEATURE:
 182 <223> OTHER INFORMATION: template
 184 <400> SEQUENCE: 14
 185 gaaggagaca cgcggccaga gagggctcctg tccgtggttg tgcgtggagt ttcgacaagg 60
 187 cagggtcatc taatggtgat gattcctatc cttttctctt cgttctccgt 110

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 01/25/2005

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TIME: 09:48:40

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\01252005\J521206.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/521,206**

DATE: 01/25/2005

TIME: 09:48:40

Input Set : **A:\PTO.FG.txt**

Output Set: **N:\CRF4\01252005\J521206.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date